

**ABSTRACT**

The present invention provides methods and apparatus for plasma treatment of tubing surfaces. In one aspect, the invention provides a method for treating a tubing surface which calls for generating a gaseous plasma within a spatially localized region of space by electron cyclotron resonance (ECR), and exposing the surface to this plasma for a selected time period to treat the surface. Subsequent to the plasma treatment, the treated surface can be optionally coated with a selected compound, such as a bioactive material, e.g., anti-biotic or anti-coagulants.

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